

CHAPTER 8
REINFORCEMENT

BLM 8-7

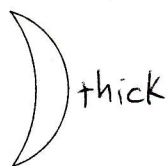
Lenses and Light

Goal • Complete this page to show your understanding of how lenses bend light.

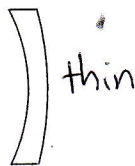
What to Do

- Review pages 244 and 245, then answer these questions and complete the diagrams.

- Describe a concave lens. thinner in the middle
- Light rays diverge when passing through a concave lens.
- Describe a convex lens thicker in the middle
- Light rays converge when passing through a convex lens.
- Sometimes people use the phrase double convex or double concave to describe a lens. They are referring to the shape of each surface. But the shape of the surfaces is not the important thing. To identify concave and convex lenses, it is the thickness of the glass in the middle compared to the thickness at the edges that counts. Classify these strange-looking lenses as convex or concave.



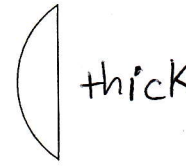
thick

convex

thin

concave

thin

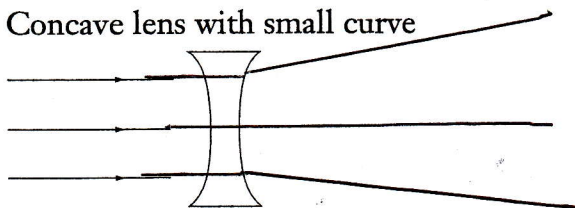
Concave

thick

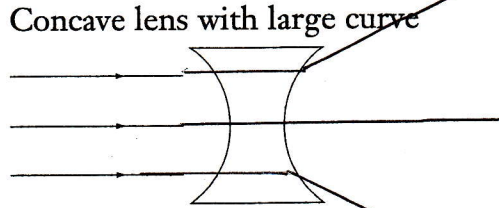
convex

- Draw the paths of the light through each of the following lenses.

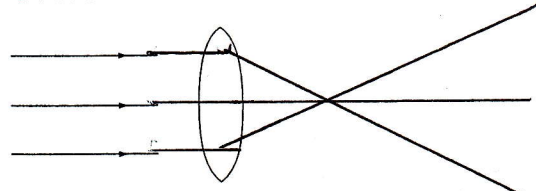
Concave lens with small curve



Concave lens with large curve



Convex lens with small curve



Convex lens with large curve

